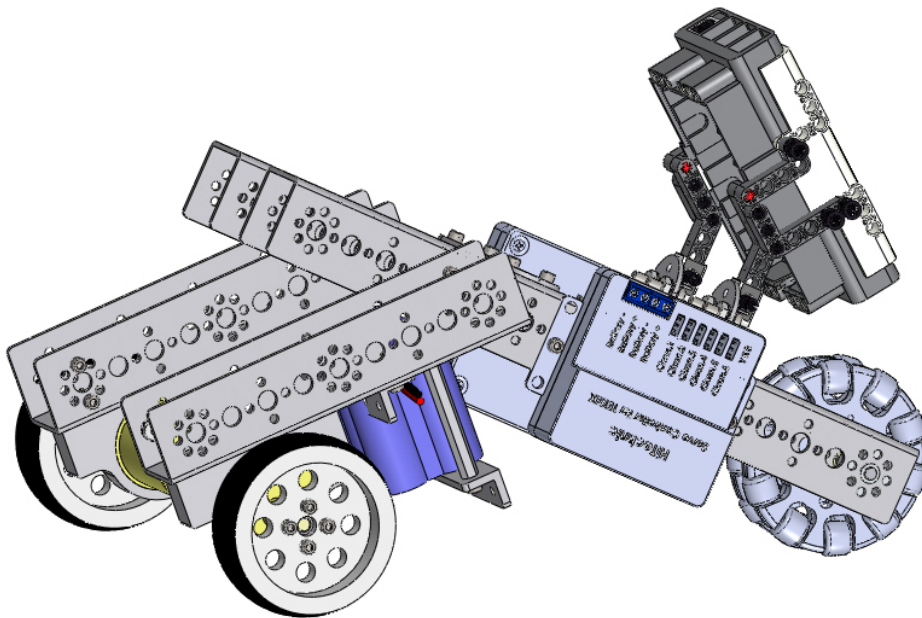


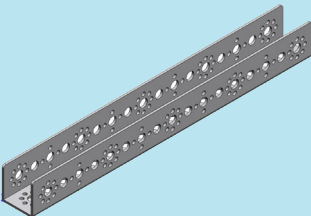
# Engineering with NI LabVIEW™: High School Robotics Activities



## Unit 4 Building Instructions

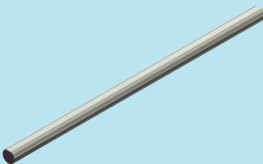
# Unit 4 Building Instructions Step 1

## Parts Needed



2x

TETRIX Channel 288



1x

TETRIX Axle D-Shaft



2x

TETRIX Bronze Bushing



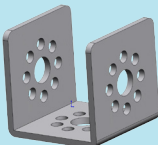
2x

TETRIX Hub D-Shaft



2x

TETRIX Omni Wheel



1x

TETRIX Channel 32



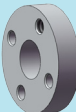
16x

TETRIX Screw SHCS  
6-32 x 0.5



4x

TETRIX Keps Nut 6-32



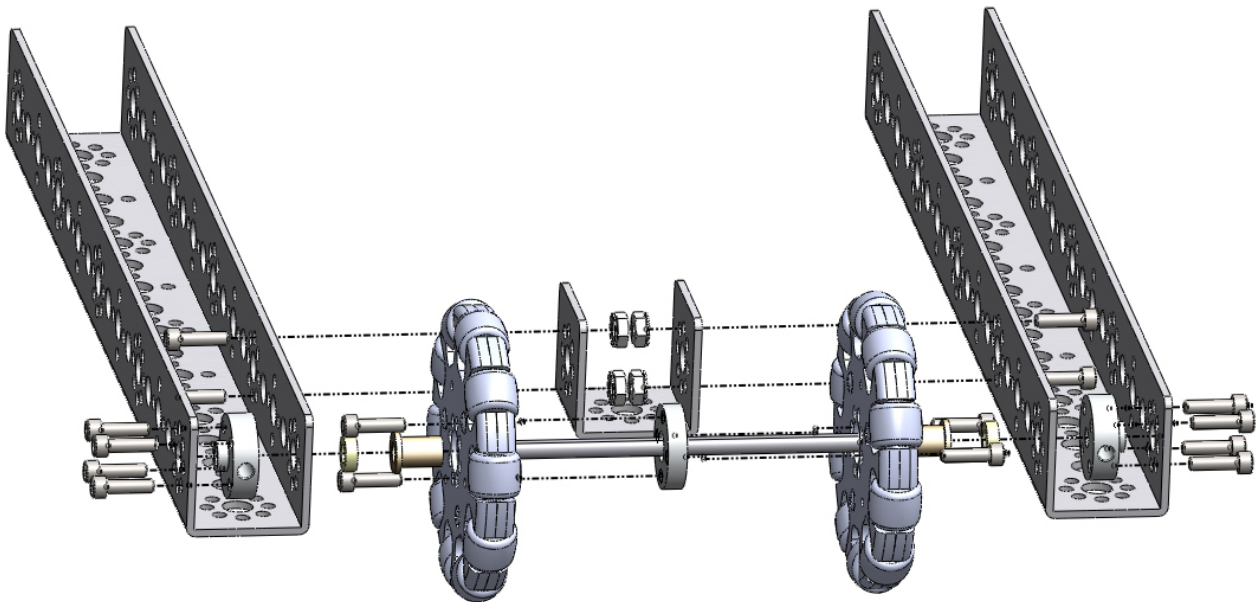
1x

Omni Wheel Hub

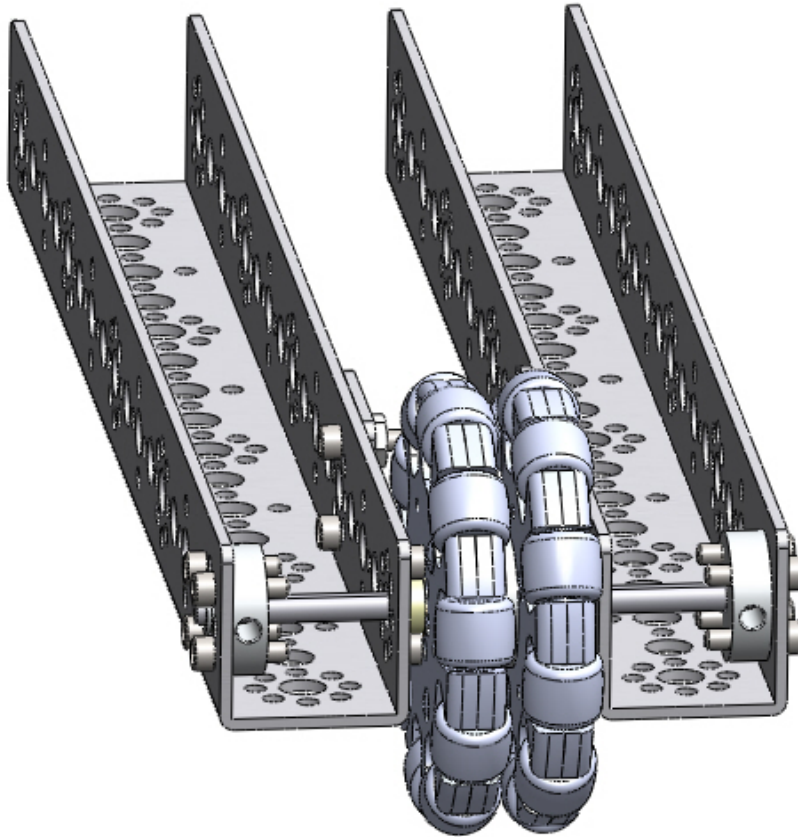


2x

TETRIX Nylon Spacer  
Small



## Unit 4 Building Instructions Step 2



# Unit 4 Building Instructions Step 3

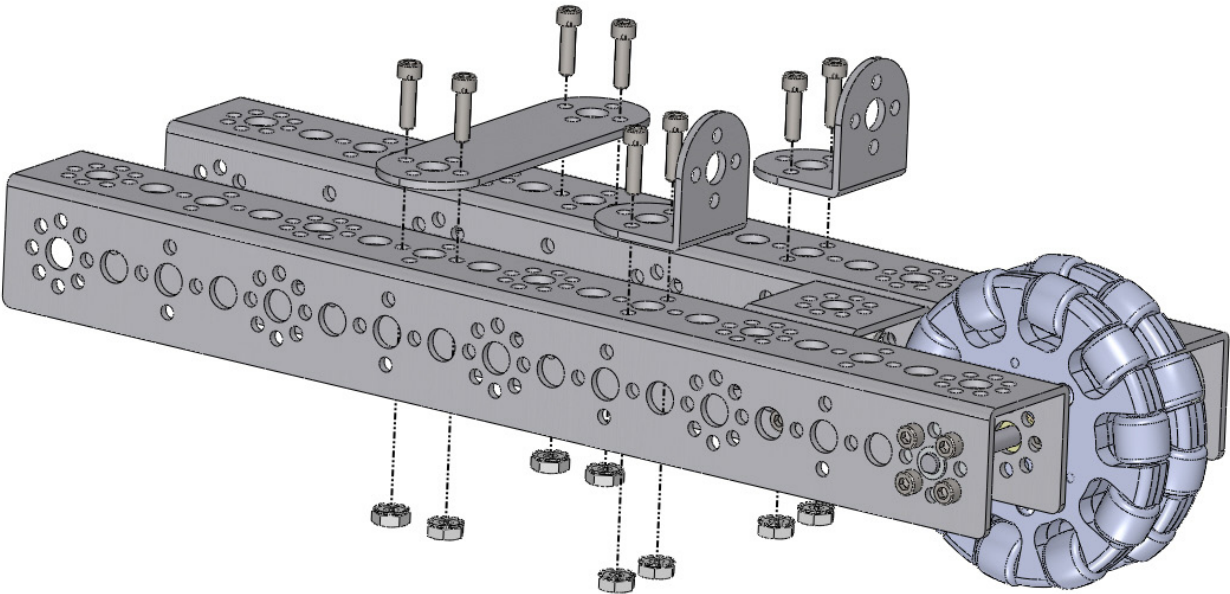
## Parts Needed

8x  
TETRIX Keps Nut 6-32

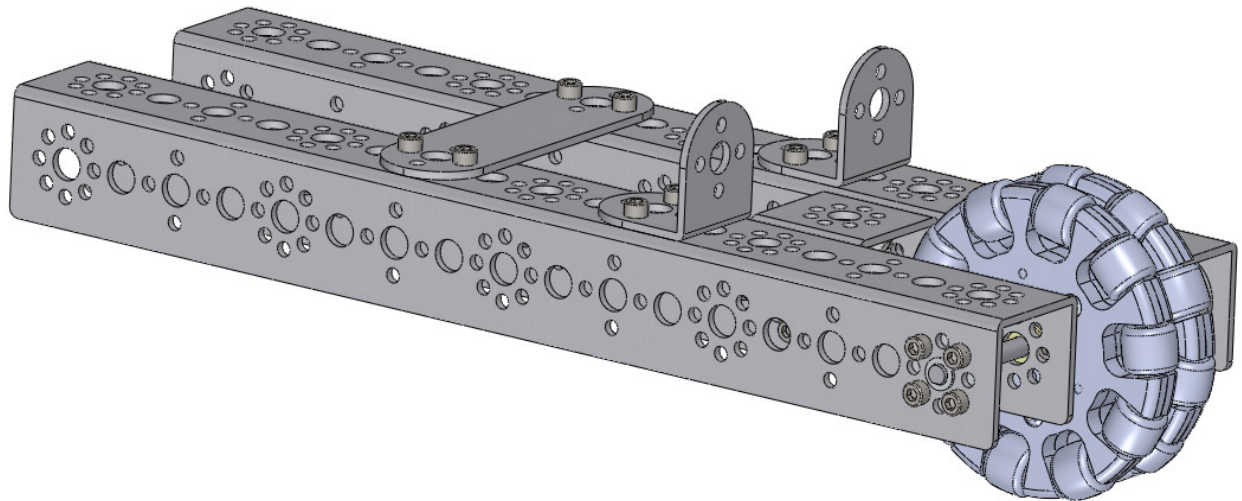
8x  
TETRIX Screw SHCS  
6-32 x 0.5

1x  
TETRIX Bracket Flat

2x  
TETRIX Bracket L-angle

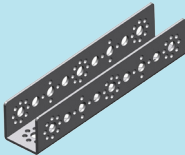


## Unit 4 Building Instructions Step 4

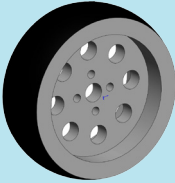


# Unit 4 Building Instructions Step 5


## Parts Needed



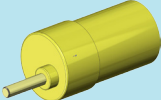
2x  
TETRIX Channel 160



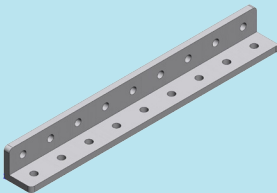
2x  
TETRIX Wheel 76mm 3 inch



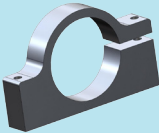
2x  
TETRIX Hub Motor Shaft



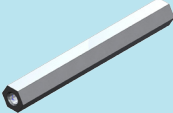
2x  
TETRIX DC Motor



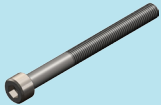
2x  
TETRIX Angle 144




2x  
TETRIX DC Motor Mount




2x  
TETRIX Standoff 2 inch



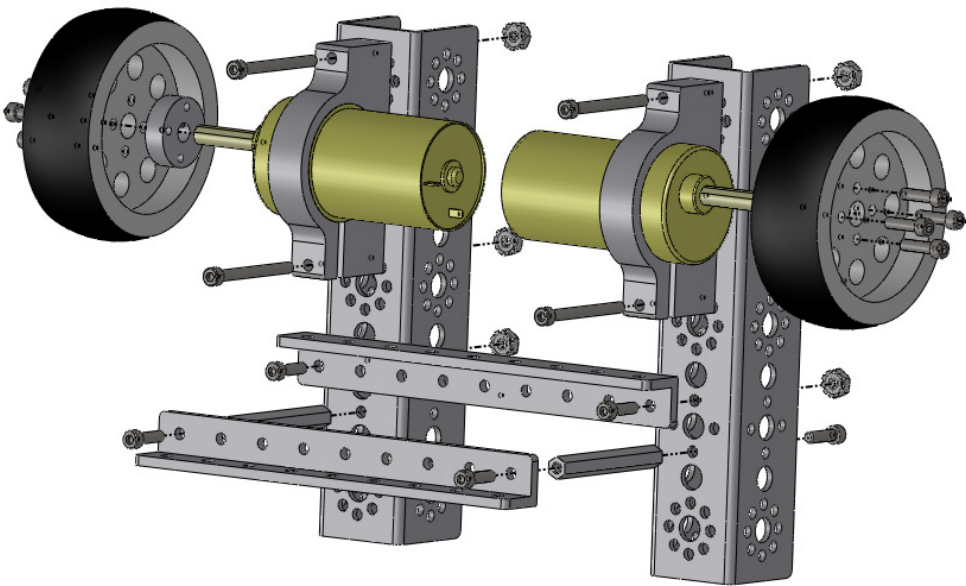
4x  
TETRIX Screw SHCS 6-32 x 1.5



14x  
TETRIX Screw SHCS 6-32 x 0.5

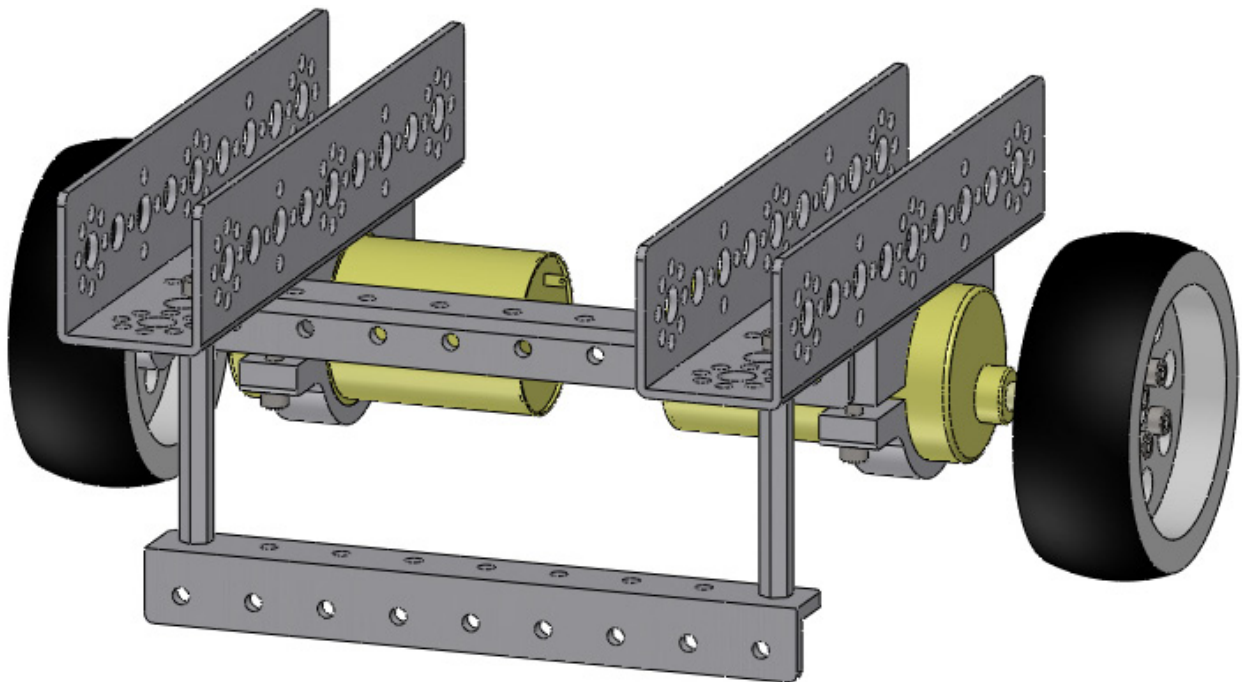


6x  
TETRIX Keps Nut 6-32



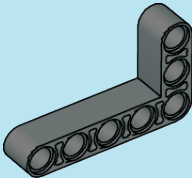


## Unit 4 Building Instructions Step 6

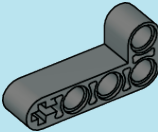


# Unit 4 Building Instructions Step 7


## Parts Needed



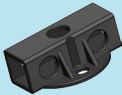
2x  
3x5-Module Angular Beam



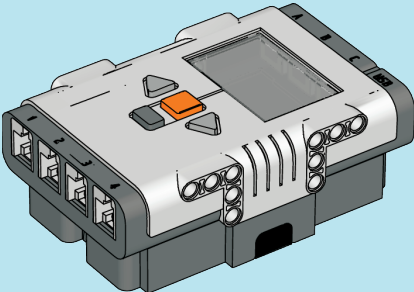
2x  
4x2-Module Angular Beam



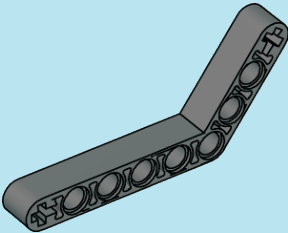
6x  
Connector Peg with Bushing




2x  
LEGO HPC




1x  
NXT




2x  
4x6-Module Angular Beam



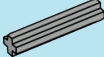
2x  
3-Module Connector Peg with Friction



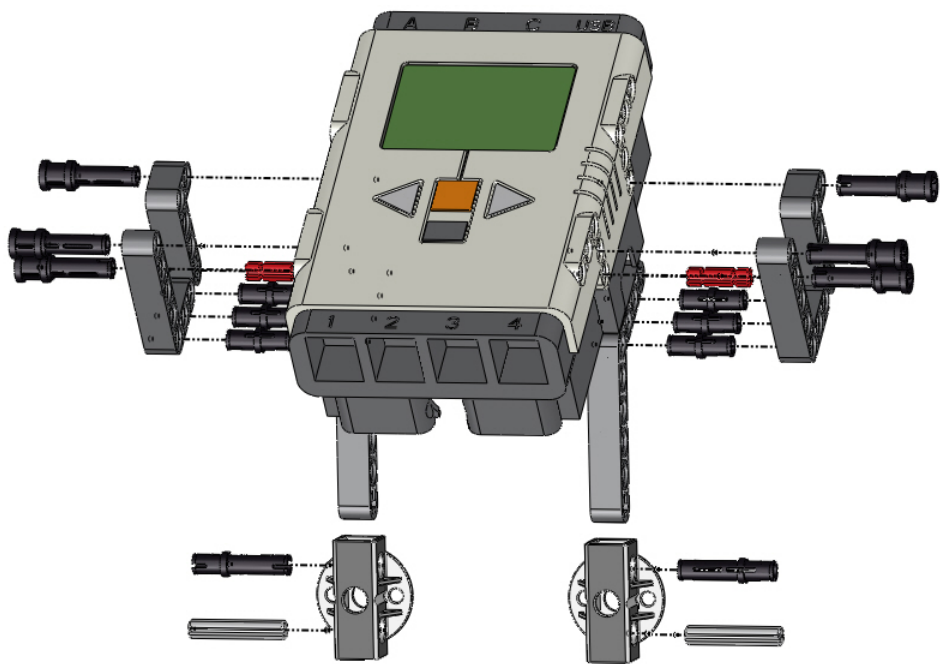
2x  
2-Module Axle



6x  
Connector Peg with Friction

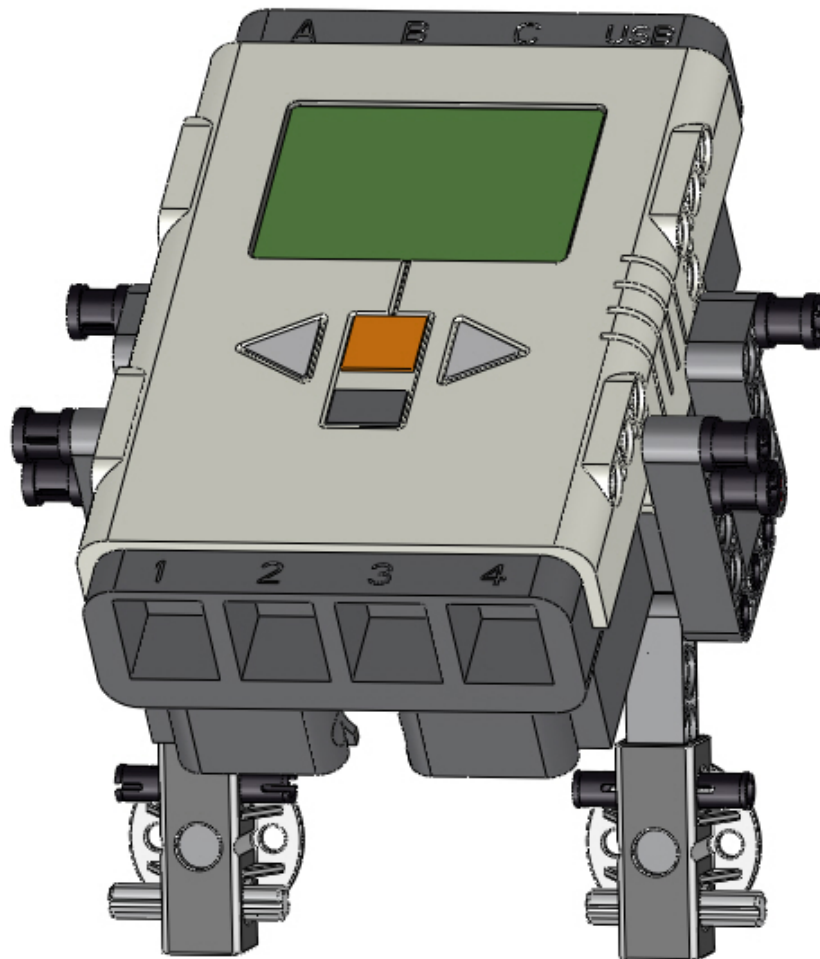


2x  
3-Module Axle





## Unit 4 Building Instructions Step 8



## Unit 4 Building Instructions Step 9

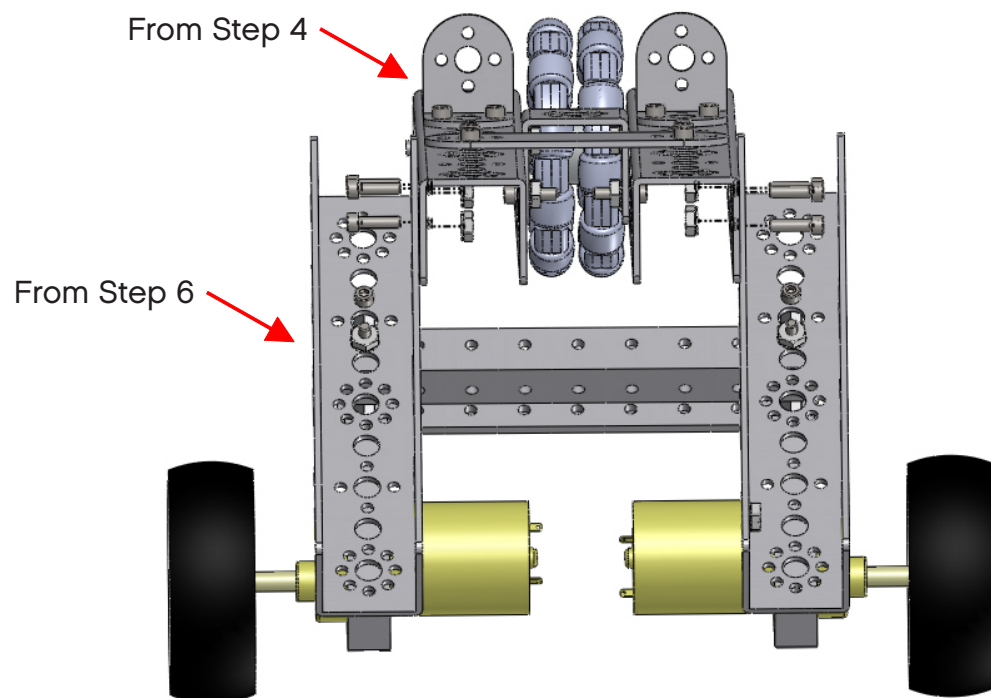
### Parts Needed



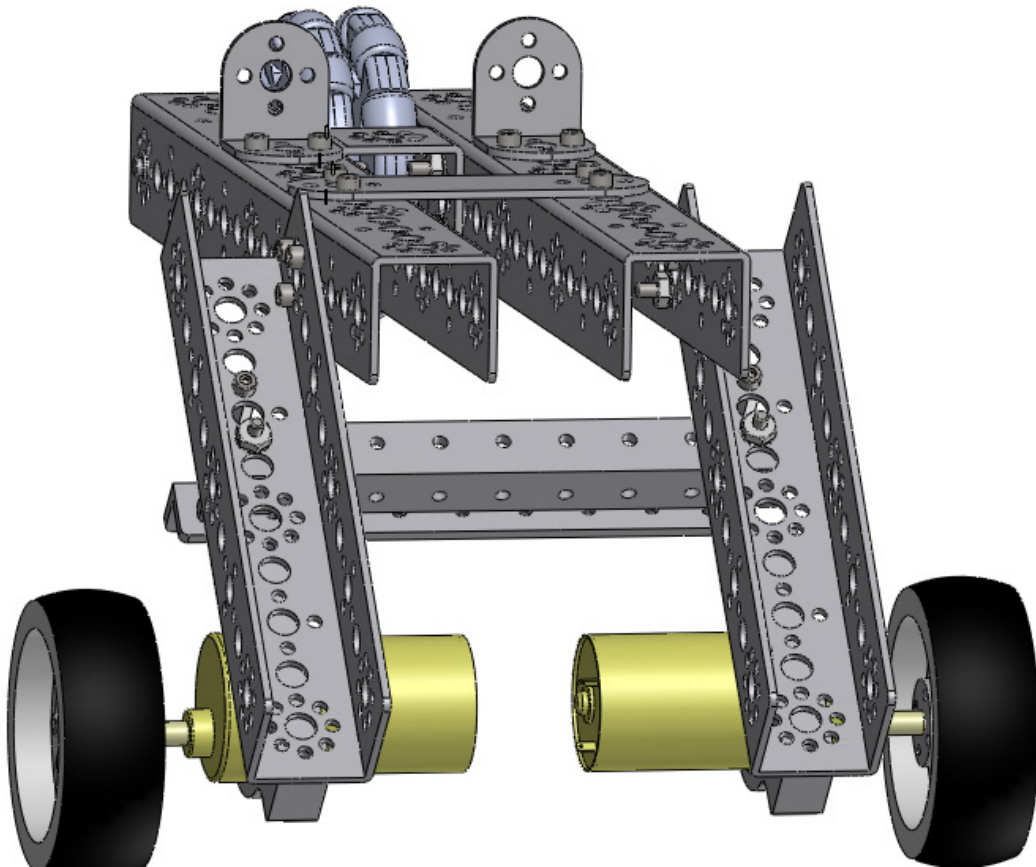
6x  
TETRIX Screw SHCS  
6-32 x 0.5



6x  
TETRIX Keps Nut 6-32



## Unit 4 Building Instructions Step 10



# Unit 4 Building Instructions Step 11

## Parts Needed



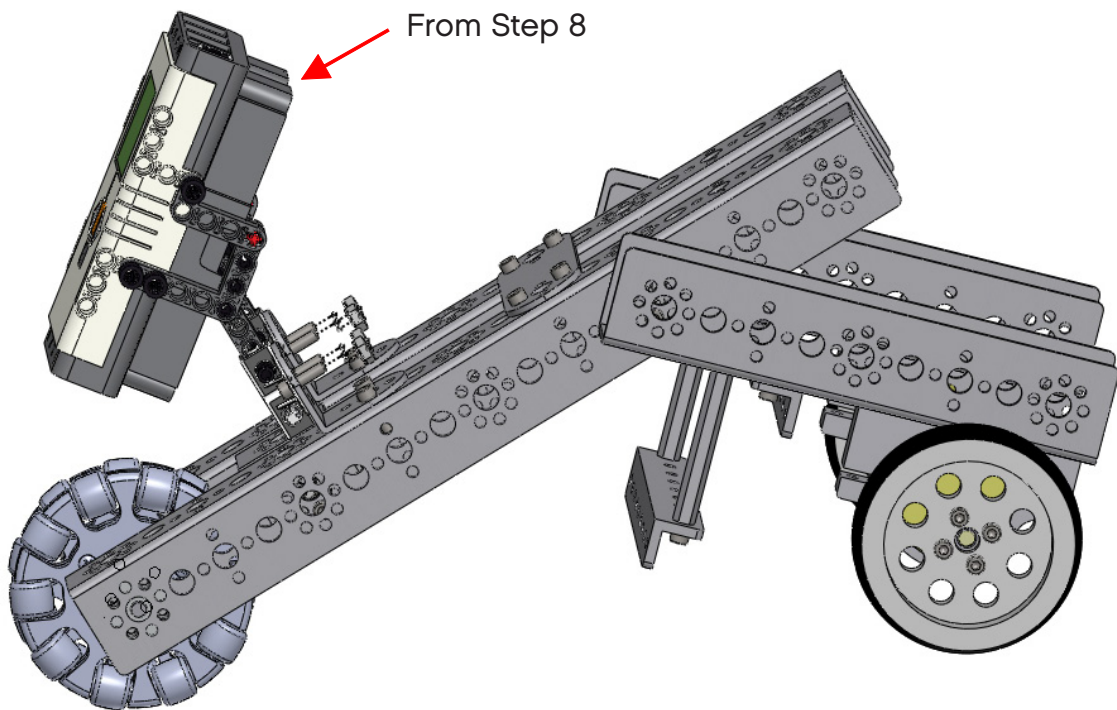
4x

TETRIX Screw SHCS  
6-32 x 0.5

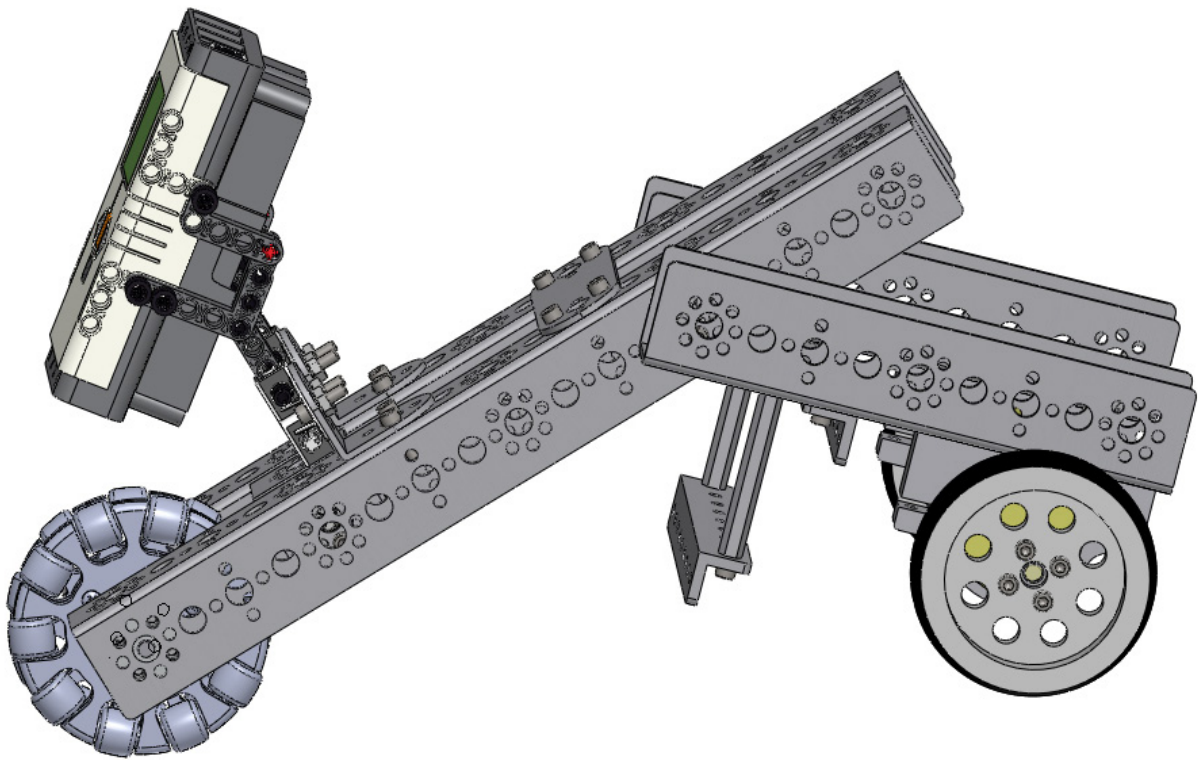


4x

TETRIX Keps Nut 6-32



## Unit 4 Building Instructions Step 12



## Unit 4 Building Instructions Step 13

### Parts Needed



4x

TETRIX Screw SHCS  
6-32 x 0.5



4x

TETRIX Keps Nut 6-32



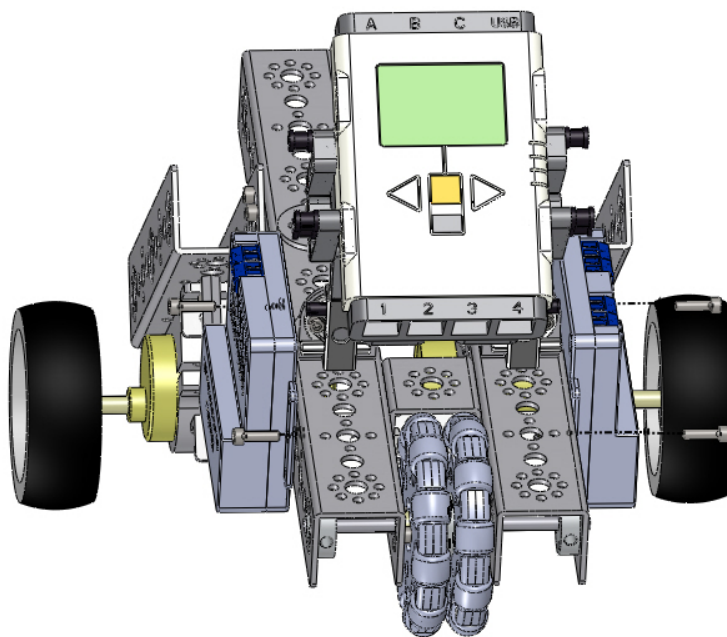
1x

TETRIX DC Motor  
Controller



1x

TETRIX Servo  
Controller





## Unit 4 Building Instructions Step 14

